

S.
614.71
H2m
Aug. 1979



MONTANA DEPARTMENT OF HEALTH
AND ENVIRONMENTAL SCIENCES

Monthly Activities Report
of the Air Quality Bureau

August, 1979

STATE DOCUMENTS COLLECTION

OCT 20 1979

MONTANA STATE LIBRARY
930 E Lyndale Ave.
Helena, Montana 59601

1. Highlights:

A new State Planner was hired and began work August 6. He will be working with the transportation portion of the SIP

Several MAPS reports were finalized and printed for distribution.

2. Ambient Air Quality Standards:

a. Standards Exceeded: The network system is presently being revised; therefore this information is not available.

b. Air Stagnation Advisories: None in August

c. Laboratory Status:

Total Determinations for Month	1919
Total Samples for Month	318

3. Permits and Tax Credits:

a. Permits, applied for

McIntyre Construction, Wheatland Co., crusher
McIntyre Construction, Flathead Co., crusher and hot plant
American Colloid, Malta, bentonite dryer
ASARCO, East Helena, stack equipment for baghouse
Westmoreland, Hysham, coal mine
Konitz Construction, Fergus & Judith Basin Cos., crushers
Konitz Construction, Cascade, Choteau, & Lewis & Clark Cos., crushers
McIntyre Construction, Teton Co., crusher
Baltrusch Construction, Hill Co., crusher
Meyer Construction, Granite Co., drum dryer; asphalt plant
Meyer Construction, Granite Co., gravel crusher

Permits approved:

Dept. of Highways, Missoula and Ravalli Co., hot plant
Dept. of Highways, Flathead Co., asphalt plant
Wickens Brothers, Sanders Co., gravel crusher
Clark Brothers, Missoula, Ravalli Cos., crusher
B & N Construction, Sanders Co., crusher
Wickens, Rosebud Co., crusher
Markovich Paving, Lewis & Clark Co., hot plant
R. J. Studer, Custer Co., dryer mixer, wet scrubber
Portable Pavers, Fallon Co., asphalt plant
Gus Albert, Sheridan, crusher
Clark Brothers, Mineral Co., portable gravel crusher

August, 1979

c. Tax Credits: None in August

4. Variance Status:

a. Current

ASARCO, rule 16-2.14(1)-S1470(2), Sulfur Oxide Emissions applicable to lead-zinc complex, final compliance due June 30, 1980

Berg Lumber, rule 16-2.14(1)-S1490, Open Burning, final compliance date June, 1980

The Anaconda Co., application for variance from sulfur oxide emissions, hearing pending

Anaconda Aluminum, application for variance from fluoride emissions, hearing pending.

b. New - None

5. Enforcement Actions:

a. Citations:

Plum Creek Lumber (C & C Plywood), Evergreen, MT 790807-DH-1; #2 boiler in violation of rule 16-2.14(1)-S1460(1) Visible Air Contaminants, Restrictions

American Asphalt, Kalispell, MT 790810-DH-1 Asphalt plant stack in violation of rule 16-2.14(1)-S1460(2) Visible Air Contaminants, Restrictions

Baltrusch Construction, Swan Lake Road. 790806-DH-1; asphalt plant in violation of rule 16-2.14(1)-S1440-1, Particulate Matter, Airborne

Flathead County, Kalispell 790809-BR-1, Asphalt plant stack in violation of rule 16-2.14(1)-S1460(2), Visible Air Contaminants, Restrictions

Louisiana Pacific, Missoula 790832-SS-1; particle board plant boiler stack in violation of rule 16-2.14(1)-S1460(2), Visible Air Contaminants

b. Notice of Violations

Kaiser Cement, Montana City N-790820-DH-1; Operation in violation of rule 16-2.14(1)-S1415, Permits, Construction and Operation

c. Order to take Corrective Actions - None in August

6. Tepee Burner and Open Burning

Tepee burner: Number in operation - 20

Open Burning Permits Issued:

Kalispell Office	47	Sanders County	0
Cascade County	7	Yellowstone County	17
Lake County	0	Rest of State	180
Missoula County	1	Total	242

7. Source Tests Performed:

None in August

8. Field Investigations:

Plum Creek Lumber, Evergreen, inspection, Citation issued
American Timber, Olney, inspection
Plum Creek Lumber, Fortine, inspection
Louisiana Pacific, Deer Lodge, inspection
American Asphalt, Kalispell, inspection, Citation issued
Kennedy Stevens, Eureka, inspection
Stoltze Conner, Darby, inspection
Champion (S&W), Darby, inspection
Diamond International, Superior, inspection
Idaho Cedar Sales, Superior, inspection
Louisiana Pacific, Trout Creek, inspection
Meyer Construction, Helmsville, inspection
Baltrusch Construction, Swan Lake, inspection, Citation issued
Ideal Cement, Trident, inspection
Cypress Products, Three Forks, inspection
Kanta Products, Three Forks, inspection
Kalmont Lumber, Kalispell, inspection
Pack & Co., Kalispell, inspection
Klinger Lumber Co., Kalispell, inspection
Equity Supply 1 & 2, Kalispell, inspection
Ksanka Lumber Co., Fortine, inspection
J & D Lumber, Polson, inspection
Champion Building Products (Intermountain), Missoula, inspection
Evans Products, Missoula, inspection
Louisiana-Pacific, Missoula, Citation issued upon inspection
Champion International (Bonner), inspection
Flathead County, Kalispell, asphalt plant, citation issued
City of Kalispell asphalt plant, inspection
Stoltze Land & Lumber, Columbia Falls, inspection
Missoula White Pine & Sash, Missoula, inspection
Missoula County asphalt plant, Missoula, inspection
Nicholson Paving, Missoula, inspection
American Asphalt, Missoula, inspection
Western Materials, Missoula, inspection
Pyramid Lumber, Seeley Lake, inspection
City of Missoula asphalt plant, Missoula, inspection

9. Complaints:

C & C Plywood, Kalispell, smoke, inspection
Montana Plywood, Kalispell, unburned particles in grain field, inspection
Goulding Creek Road, Musselshell Co., dust, investigated
Anaconda Co., Anaconda, sulfur emissions, inspection (five complaints)
Plum Creek, Columbia Falls, fallow, referred to Champion International
Pierce Packing, Billings, odor, referred to Yellowstone County Air
Pollution Control agency (2 complaints)
Northwest Plymeric, Hamilton, plastic wastes, giving away high density
polyethylene, contacted plant by telephone
Super Building Products, Columbia Falls, dumping wood waste, referred to
Chief, Volunteer Fire Department
Deer Lodge Co., Landfill, Anaconda, smoke, investigated
Dugdale Construction, Butte, dust and odors

10. Data Processing Services:

a. Ambient Data Summary - See attached for month of July

b. Emission Inventory Status:

Contract approved for having the EIS/P&R system modified to meet
more fully the needs of the Bureau. Contractor will begin work on
September 1.

c. Prevention of Significant Deterioration - no activities in August

d. Modeling - None

11. Environmental Impact Statements:

a. The final EIS on Ambient Air Standards is presently undergoing
rewriting and editing.

12. Status of Studies, Contracts and Reports

MAPS Meteorology - field work is continuing. Air Resources Modeling
System report, Deer Lodge Valley Dispersion Study, and First Year
Meteorology Summary reports have been distributed.

Poplar River - field work continuing. Second year data summary report
has been sent to printer.

Flathead River Basin Study - field work continuing. First Year report
draft is completed. Final report is due in September.

MAPS COPD report is undergoing final revision. Report should be printed
by October.

MAPS Emission Inventory, received the final report from MRI for
update and improvement.

13. Schools and Training:

Fuel Conservation Program required by Governor's Office was attended by several bureau employees.

14. Meetings:

a. Public Hearings Held

None in August

b. Meetings attended:

Industry representatives regarding ambient air quality standards, Helena
MAPS meeting, Missoula, regarding goals for the next biennium study
OBPP representative, Helena, regarding objectives and function of the bureau
Manager's meeting, Helena,
Division Administrators meeting, Helena
Staff meetings, Bureau
MAPS staff meetings, Bureau
Met with Department of Highway and Olson-Elliott, Helena, regarding
DESPUR

15. Public Information Requests:

Received requests for the following documents:

MAPS Mutagen Report
Poplar River Report
MAPS Meteorology Reports
Air Quality rules
Clean Air Act
State Implementation Plan
Draft EIS on ambient standards

MONTANA DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES

MONTHLY SUMMARY OF AIR QUALITY DATA

p. 1 of 2

July 1979

Pollutant: Total Suspended Particulate

Units: micrograms/m³

AREA		HIGH READING			ARITHMETIC AVER.			Comments
AQCR	Site Location	Current Month	Year-to-Date	Running Year	Year-to-Date	No. of Mon. of Data		
140	Morton-Decker Big Horn Co. Warren Ranch Big Horn Co. KBH Billings City Hall Billings Grand Ave. Sch. Billings Central Park Billings Laurel Jr. High	59 38 81 100 96 212 — —	112 52 81 288 302 246 — —	112 110 155 288 302 246 * *	40 24 44 87 73 77 — —	7 7 7 7 7 7 — —	1 exc Fed Sec Std	
141	Hospital Roof Great Falls Fire Sta. #1 Great Falls Kiwanis Park Great Falls Hwy Jct. Anaconda	— — — — 89 — — —	— — — — 111 — 86 303	— — — — 111 — 86 303	— — — — 44 — 42 44	— — — — 7 — 7 7		
142	Lincoln School Anaconda Floral Park Butte McKinley Res Granite Co.	— 84 56 — 72	— 303 112 — 97	— — 112 — 142	— 44 57 — 49	— 7 7 — 7		

* - data unavailable at time of report.

Pollutant: Total Suspended Particulate

Units: micrograms/m³

AREA		HIGH READING			ARITHMETIC AVER.		
AQCR	Site Location	Current Month	Year-to-Date	Running Year	Year-to-Date	No. of Mon. of Data	Comments
142	Dr. Canty Res.	124	181	181	74	7	
	Granite Co.						
	Greeley School	105	196	196	90	7	
	Butte						
	Hebgen Park	173	225	225	81	7	1 exc Fed Sec Std
	Butte						
	Tierney Res.	62	80	81	40	7	
	Silver Bow Co.						
	Microwave	68	89	89	39	7	
	Jefferson Co.						
	212 E. Pacific	181	181	201	83	7	1 exc Fed Sec Std
	East Helena						
	Cogswell Bldg.	89	238	238	72	7	
	Helena						
143	Lindsay	146	146	146	30	7	
	Oawson Co.						
	Lane Deer	143	143	143	18	7	
	Rosebud Co.						
	Fort Peck	100	100	100	21	7	
	McCombe Co.						
	BN Site	98	98	138	38	7	
	Colstrip						
	McRae Site	52	69	69	21	7	
	Colstrip						
	Border Site	48	48	80	17	7	
	Scobey						
144	Anders Residence	254	375	375	145	7	2 exc Fed Sec Std
	Col. Falls						
	NAAC						
	Col. Falls	42	63	63	27	7	

Pollutant: Total Suspended Particulate

Units: micrograms/m³

AREA		HIGH READING			ARITHMETIC AVER.		Comments
AQCR	Site Location	Current Month	Year-to-Date	Running Year	Year-to-Date	No. of Days	
144	Ronan Lake County Polson	224	311	311	105	7	
	Lake County Libby-Brown	63	169	169	71	6	
	Lincoln Co. Kalispell-Strom	220	610	1384	216	7	
	Flathead Co. Courthouse Roof	140	343	343	93	7	
	Missoula Lion's Park	155.4	267	267	91.4	7	exc Fed Sec Std
	Missoula	161.5	419.4	419.4	98.7	7	1 exc Fed Sec Std
	Rose Park	132.1	317.3	317.3	94.3	7	
	Missoula	77.6	117.9	117.9	42.9	7	
	Hoerner Wald. #1	86.9	157.7	201	45.4	7	
	Missoula Co.	89	120	120	58	6	
	Kalispell Airport						
	Flathead Co.						

Pollutant: Respirable Particulate -
Dichotomous SamplerUnits: micrograms/m³

AREA		HIGH READING			ARITHMETIC AVER.		
AQCR	Site Location	Current Month	Year-to-Date	Running Year	Year-to-Date	No. of Mon. of Data	Comments
140	Central Park Billings coarse fine						
141	Kiwanis Park Great Falls coarse fine						
	Lincoln School Anaconda coarse fine						
	Hebgen Park Butte coarse fine						
	Floral Park FS Butte coarse fine						
143	Border Site Scobey coarse fine						
144	Lion's Park Missoula coarse fine						
	Courthouse Roof Missoula coarse fine						
	Kalispell Airport Flathead Co. coarse fine						

MONTANA DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES
MONTHLY SUMMARY OF AIR QUALITY DATA

Pollutant: Miscellaneous Continuous Data Units: ppm

AREA		HIGH READING			ARITHMETIC AVER.		Comments
AQCR	Site Location	Current Month	Year-to-Date	Running Year	Year-to-Date	No. of Mon. of Data	
142	Carbon Monoxide Alpine West Butte Lincoln School Anaconda			*			
144	Lion's Park Missoula			*			
	Hydrocarbons Hebgen Park Butte Lincoln School Anaconda	3.0	3.0	3.0	1.6	7	
144	Lion's Park	2.5			1.82		
	Ozone Central Park Billings Lincoln School Anaconda	0.082	0.105	0.110	0.027	7	
142	Hebgen Park Butte	0.070	0.070	0.070	0.037	7	
144	Lion's Park	0.061	0.068	0.077	0.038	7	
		0.075			0.028		

AREA		HIGH READING			ARITHMETIC AVER.		Comments
AQCR	Site Location	Current Month	Year-to-Date	Running Year	Year-to-Date	No. of Mon. of Data	
	Nitrogen Dioxide Central Park Billings Lincoln School Anaconda	0.023	0.035	0.035	0.004	7	
144	Hebgen Park Butte Lion's Park Missoula	0.058			0.014		
	Sulfur Dioxide Central Park Billings Lockwood School Billings	0.245	0.245	0.245	0.011	7	
142	Laurel Farm Laurel Hwy Jct. Anaconda	0.245	0.350	0.350	0.012	7	
	Mill Creek Anaconda Lincoln School Anaconda	0.25	0.74	0.74	0.037	7	
	Hebgen Park Butte Microwave Jefferson Co. Broudy Ranch Jefferson Co.	0.98	2.30	2.75	0.028	7	
		0.74	1.62	1.62	0.035	7	
		0.93	1.03	1.03	0.027	7	
				*			
		0.09					
		0.08					

Pollutant: Miscellaneous Indicators

Units

AREA		HIGH READING			ARITHMETIC AVER.		Comments
AQCR	Site Location	Current Month	Year-to-Date	Running Year	Year-to-Date	No. of Mon. of Data	
141	Dustfall-tons/sq. mile Mountain States Great Falls Fire Sta. #1 Great Falls			*			
	Sulfation Rate-mg/100 sq. cm West Genex Billings Farm E of Genex Billings	0.43	0.56	0.56	0.37	7	
140	Stock Car Track Great Falls Phillips Ref #1 Great Falls Phillips Ref E Great Falls	0.46	1.51	1.51	0.96	7	
141	Microwave East Helena 212 E Pacific East Helena East Stock Sta. East Helena Broudy Ranch East Helena 2500 Prickly Pear East Helena Grant-Kohrs - C Powell Co.			*			
142		0.28	0.37	0.37	0.23	7	
		0.17	0.47	0.47	0.26	7	
		0.12	0.27	0.27	0.11	7	
		0.04	0.31	0.31	0.14	7	
		0.11	0.11	0.11	0.11	1	

Pollutant: Miscellaneous Indicators

Units:

AREA		HIGH READING			ARITHMETIC AVER.		Comments
AQCR	Site Location	Current Month	Year-to-Date	Running Year	Year-to-Date	No. of Mon. of Data	
144	Fluoride Papers - mg/sq. cm/30 days Dehbm's Mt. Box Flathead Co. Anaconda South Flathead Co. Glacier Park #1 Glacier Nat. Park Glacier Park #2 Glacier Nat. Park Glacier Park #9 Glacier Nat. Park Fluoride Plates - mg/sq. cm/30 days Anaconda South Flathead Co. Tretler - WAC Flathead Co. Glacier Park #1 Glacier Nat. Park Glacier Park #2 Glacier Nat. Park Glacier Park #9 Glacier Nat. Park SO2 Bubbler - ppm Border Site Schober NO2 Bubbler - ppm Border Site Schober	0.96	1.07	1.07	1.78	7	
		2.34	11.42	11.42	4.94	7	
		0.49	0.69	0.69	0.42	7	
				**			
		0.37	0.37	0.37	0.30	7	
144		2.89	26.22	26.22	8.00	7	
		1.42	1.73	1.73	1.25	7	
		0.45	0.86	0.86	0.41	7	
				**			
		0.29	0.29	0.29	0.23	7	
143		0.0	0.0	0.0	0.0	7	
143		0.0	0.0	0.0	0.0	7	

* - data unavailable at time of report.
*** - sample invalid

** - site discontinued

